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#10

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/09/884,456

TIME: 15:29:00

Input Set : A:\223002010005.txt

Output Set: N:\CRF3\03042002\I884456.raw

```

4 <110> APPLICANT: Houghton, Michael
5      Choo, Oui-Lim
6      Kuo, George
8 <120> TITLE OF INVENTION: Hepatitis C virus protease
11 <130> FILE REFERENCE: 223002010005
13 <140> CURRENT APPLICATION NUMBER: 09/884,456
14 <141> CURRENT FILING DATE: 2001-06-18
16 <150> PRIOR APPLICATION NUMBER: 09/253,230
17 <151> PRIOR FILING DATE: 1999-02-19
19 <150> PRIOR APPLICATION NUMBER: 08/709,177
20 <151> PRIOR FILING DATE: 1996-09-06
22 <150> PRIOR APPLICATION NUMBER: 08/440,548
23 <151> PRIOR FILING DATE: 1995-05-12
25 <150> PRIOR APPLICATION NUMBER: 08/350,884
26 <151> PRIOR FILING DATE: 1994-12-06
28 <150> PRIOR APPLICATION NUMBER: 07/680,296
29 <151> PRIOR FILING DATE: 1991-04-04
31 <150> PRIOR APPLICATION NUMBER: 07/505,433
32 <151> PRIOR FILING DATE: 1990-04-04
34 <160> NUMBER OF SEQ ID NOS: 90
36 <170> SOFTWARE: FastSEQ for Windows Version 4.0
38 <210> SEQ ID NO: 1
39 <211> LENGTH: 202
40 <212> TYPE: PRT
41 <213> ORGANISM: Hepatitis C Virus
43 <220> FEATURE:
44 <223> OTHER INFORMATION: HCV protease
47 <400> SEQUENCE: 1
48 Arg Arg Gly Arg Glu Ile Leu Leu Gly Pro Ala Asp Gly Met Val Ser
49 1      5      10      15
50 Lys Gly Trp Arg Leu Leu Ala Pro Ile Thr Ala Tyr Ala Gln Gln Thr
51      20      25      30
52 Arg Gly Leu Leu Gly Cys Ile Ile Thr Ser Leu Thr Gly Arg Asp Lys
53      35      40      45
54 Asn Gln Val Glu Gly Glu Val Gln Ile Val Ser Thr Ala Ala Gln Thr
55      50      55      60
56 Phe Leu Ala Thr Cys Ile Asn Gly Val Cys Trp Thr Val Tyr His Gly
57 65      70      75      80
58 Ala Gly Thr Arg Thr Ile Ala Ser Pro Lys Gly Pro Val Ile Gln Met
59      85      90      95
60 Tyr Thr Asn Val Asp Gln Asp Leu Val Gly Trp Pro Ala Ser Gln Gly
61      100     105     110
62 Thr Arg Ser Leu Thr Pro Cys Thr Cys Gly Ser Ser Asp Leu Tyr Leu

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63          115          120          125
64 Val Thr Arg His Ala Asp Val Ile Pro Val Arg Arg Arg Gly Asp Ser
65          130          135          140
66 Arg Gly Ser Leu Leu Ser Pro Arg Pro Ile Ser Tyr Leu Lys Gly Ser
67 145          150          155          160
68 Ser Gly Gly Pro Leu Leu Cys Pro Ala Gly His Ala Val Gly Ile Phe
69          165          170          175
70 Arg Ala Ala Val Cys Thr Arg Gly Val Ala Lys Ala Val Asp Phe Ile
71          180          185          190
72 Pro Val Glu Asn Leu Glu Thr Thr Met Arg
73          195          200
75 <210> SEQ ID NO: 2
76 <211> LENGTH: 9
77 <212> TYPE: PRT
78 <213> ORGANISM: Hepatitis C Virus
80 <220> FEATURE:
81 <223> OTHER INFORMATION: HCV protease
83 <400> SEQUENCE: 2
84 Cys Trp Thr Val Tyr His Gly Ala Gly
85 1          5
87 <210> SEQ ID NO: 3
88 <211> LENGTH: 9
89 <212> TYPE: PRT
90 <213> ORGANISM: Hepatitis C Virus
92 <220> FEATURE:
93 <223> OTHER INFORMATION: HCV protease
95 <400> SEQUENCE: 3
96 Asp Gln Asp Leu Gly Trp Pro Ala Pro
97 1          5
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 9
101 <212> TYPE: PRT
102 <213> ORGANISM: Hepatitis C Virus
104 <220> FEATURE:
105 <223> OTHER INFORMATION: HCV protease
107 <400> SEQUENCE: 4
108 Leu Lys Gly Ser Ser Gly Gly Pro Leu
109 1          5
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 9
113 <212> TYPE: PRT
114 <213> ORGANISM: Yellow Fever virus
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Yellow Fever virus protease
119 <400> SEQUENCE: 5
120 Phe His Thr Met Trp His Val Thr Arg
121 1          5
123 <210> SEQ ID NO: 6
124 <211> LENGTH: 9

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125 <212> TYPE: PRT  
126 <213> ORGANISM: Yellow Fever virus  
128 <220> FEATURE:  
129 <223> OTHER INFORMATION: Yellow Fever virus protease  
131 <400> SEQUENCE: 6  
132 Lys Glu Asp Leu Val Ala Tyr Gly Gly  
133 1 5  
135 <210> SEQ ID NO: 7  
136 <211> LENGTH: 9  
137 <212> TYPE: PRT  
138 <213> ORGANISM: Yellow Fever virus  
140 <220> FEATURE:  
141 <223> OTHER INFORMATION: Yellow Fever virus protease  
143 <400> SEQUENCE: 7  
144 Pro Ser Gly Thr Ser Gly Ser Pro Ile  
145 1 5  
147 <210> SEQ ID NO: 8  
148 <211> LENGTH: 9  
149 <212> TYPE: PRT  
150 <213> ORGANISM: West Nile Fever virus  
152 <220> FEATURE:  
153 <223> OTHER INFORMATION: West Nile Fever virus protease  
155 <400> SEQUENCE: 8  
156 Phe His Thr Leu Trp His Thr Thr Lys  
157 1 5  
159 <210> SEQ ID NO: 9  
160 <211> LENGTH: 9  
161 <212> TYPE: PRT  
162 <213> ORGANISM: West Nile Fever virus  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: West Nile Fever virus protease  
167 <400> SEQUENCE: 9  
168 Lys Glu Asp Arg Leu Cys Tyr Gly Gly  
169 1 5  
171 <210> SEQ ID NO: 10  
172 <211> LENGTH: 9  
173 <212> TYPE: PRT  
174 <213> ORGANISM: West Nile Fever virus  
176 <220> FEATURE:  
177 <223> OTHER INFORMATION: West Nile Fever virus protease  
179 <400> SEQUENCE: 10  
180 Pro Thr Gly Thr Ser Gly Ser Pro Ile  
181 1 5  
183 <210> SEQ ID NO: 11  
184 <211> LENGTH: 9  
185 <212> TYPE: PRT  
186 <213> ORGANISM: Murray Valley virus  
188 <220> FEATURE:  
189 <223> OTHER INFORMATION: Murray Valley virus protease

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191 <400> SEQUENCE: 11  
192 Phe His Thr Leu Trp His Thr Thr Arg  
193 1 5  
195 <210> SEQ ID NO: 12  
196 <211> LENGTH: 9  
197 <212> TYPE: PRT  
198 <213> ORGANISM: Murray Valley virus  
200 <220> FEATURE:  
201 <223> OTHER INFORMATION: Murray Valley virus protease  
203 <400> SEQUENCE: 12  
204 Lys Glu Asp Arg Val Thr Tyr Gly Gly  
205 1 5  
207 <210> SEQ ID NO: 13  
208 <211> LENGTH: 9  
209 <212> TYPE: PRT  
210 <213> ORGANISM: Murray Valley virus  
212 <220> FEATURE:  
213 <223> OTHER INFORMATION: Murray Valley virus protease  
215 <400> SEQUENCE: 13  
216 Pro Ile Gly Thr Ser Gly Ser Pro Ile  
217 1 5  
219 <210> SEQ ID NO: 14  
220 <211> LENGTH: 9  
221 <212> TYPE: PRT  
222 <213> ORGANISM: Kunjin virus  
224 <220> FEATURE:  
225 <223> OTHER INFORMATION: Kunjin virus protease  
227 <400> SEQUENCE: 14  
228 Phe His Thr Leu Trp His Thr Thr Lys  
229 1 5  
231 <210> SEQ ID NO: 15  
232 <211> LENGTH: 9  
233 <212> TYPE: PRT  
234 <213> ORGANISM: Kunjin virus  
236 <220> FEATURE:  
237 <223> OTHER INFORMATION: Kunjin virus protease  
239 <400> SEQUENCE: 15  
240 Lys Glu Asp Arg Leu Cys Tyr Gly Gly  
241 1 5  
243 <210> SEQ ID NO: 16  
244 <211> LENGTH: 9  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Kunjin virus  
248 <220> FEATURE:  
249 <223> OTHER INFORMATION: Kunjin virus protease  
251 <400> SEQUENCE: 16  
252 Pro Thr Gly Thr Ser Gly Ser Pro Ile  
253 1 5  
255 <210> SEQ ID NO: 17

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256 <211> LENGTH: 5  
257 <212> TYPE: PRT  
258 <213> ORGANISM: S. griseus A  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: S. griseus A protease  
263 <400> SEQUENCE: 17  
264 Thr Ala Gly His Cys  
265 1 5  
267 <210> SEQ ID NO: 18  
268 <211> LENGTH: 7  
269 <212> TYPE: PRT  
270 <213> ORGANISM: S. griseus A  
272 <220> FEATURE:  
273 <223> OTHER INFORMATION: S. griseus A protease  
275 <400> SEQUENCE: 18  
276 Asn Asn Asp Tyr Gly Ile Ile  
277 1 5  
279 <210> SEQ ID NO: 19  
280 <211> LENGTH: 7  
281 <212> TYPE: PRT  
282 <213> ORGANISM: S. griseus A  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: S. griseus A protease  
287 <400> SEQUENCE: 19  
288 Gly Asp Ser Gly Gly Ser Leu  
289 1 5  
291 <210> SEQ ID NO: 20  
292 <211> LENGTH: 5  
293 <212> TYPE: PRT  
294 <213> ORGANISM: Myxobacter 495  
296 <220> FEATURE:  
297 <223> OTHER INFORMATION: alpha-Lytic protease  
299 <400> SEQUENCE: 20  
300 Thr Ala Gly His Cys  
301 1 5  
303 <210> SEQ ID NO: 21  
304 <211> LENGTH: 7  
305 <212> TYPE: PRT  
306 <213> ORGANISM: Myxobacter 495  
308 <220> FEATURE:  
309 <223> OTHER INFORMATION: alpha-Lytic protease  
311 <400> SEQUENCE: 21  
312 Gly Asn Asp Arg Ala Trp Val  
313 1 5  
315 <210> SEQ ID NO: 22  
316 <211> LENGTH: 7  
317 <212> TYPE: PRT  
318 <213> ORGANISM: Myxobacter 495  
320 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/884,456

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